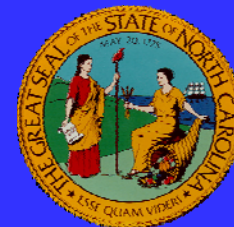


Wilmington District

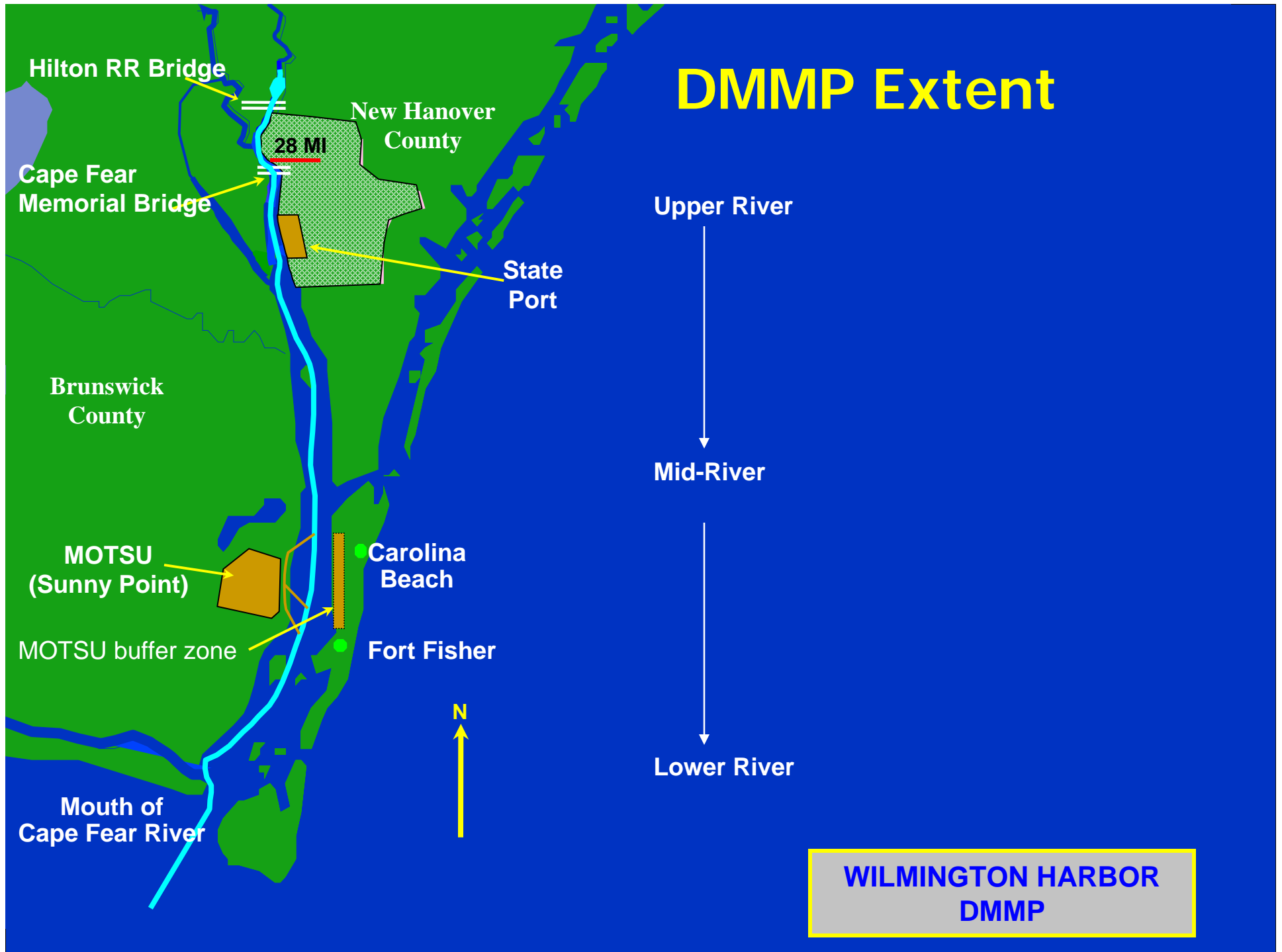


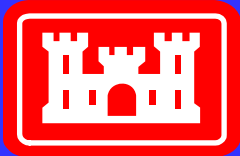
WILMINGTON HARBOR DREDGED MATERIAL MANAGEMENT PLAN (DMMP)



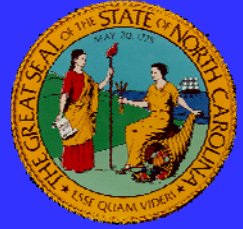
Quarterly Update April 18, 2007

DMMP Extent





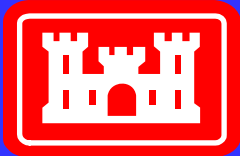
Wilmington District



DMMP Progress

- Fall 2005- present - Completed field work and most studies for alternatives analysis
- Continue to evaluate and refine alternatives
 - Preliminary Designs
 - Preliminary Cost Estimates
 - Mitigation requirements
- Next milestone - Alternative Formulation Briefing - August 2007

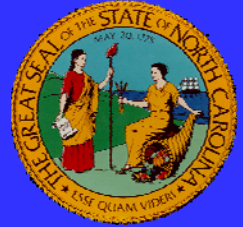




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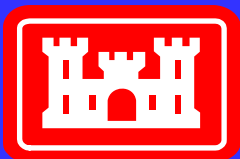
Alternatives

Eagle Island



- Cell Rotation (update mgmt plan) & dike raises
 - ❖ Gradual dike raises (~2') - dike height of 62' by 2028
- New CDF at Cell 4 - stockpile area for dry material
- Increase capacity - Beneficial Use or Ocean Disposal

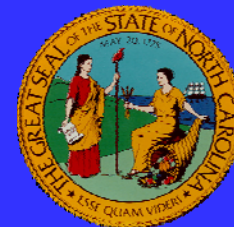


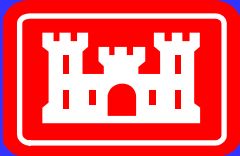


Wilmington District

Eagle Island

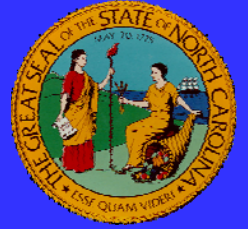
Cell 4





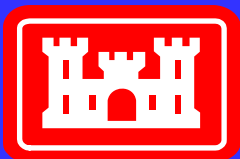
Wilmington District

Restoration/Rehab of Islands 8 & 10

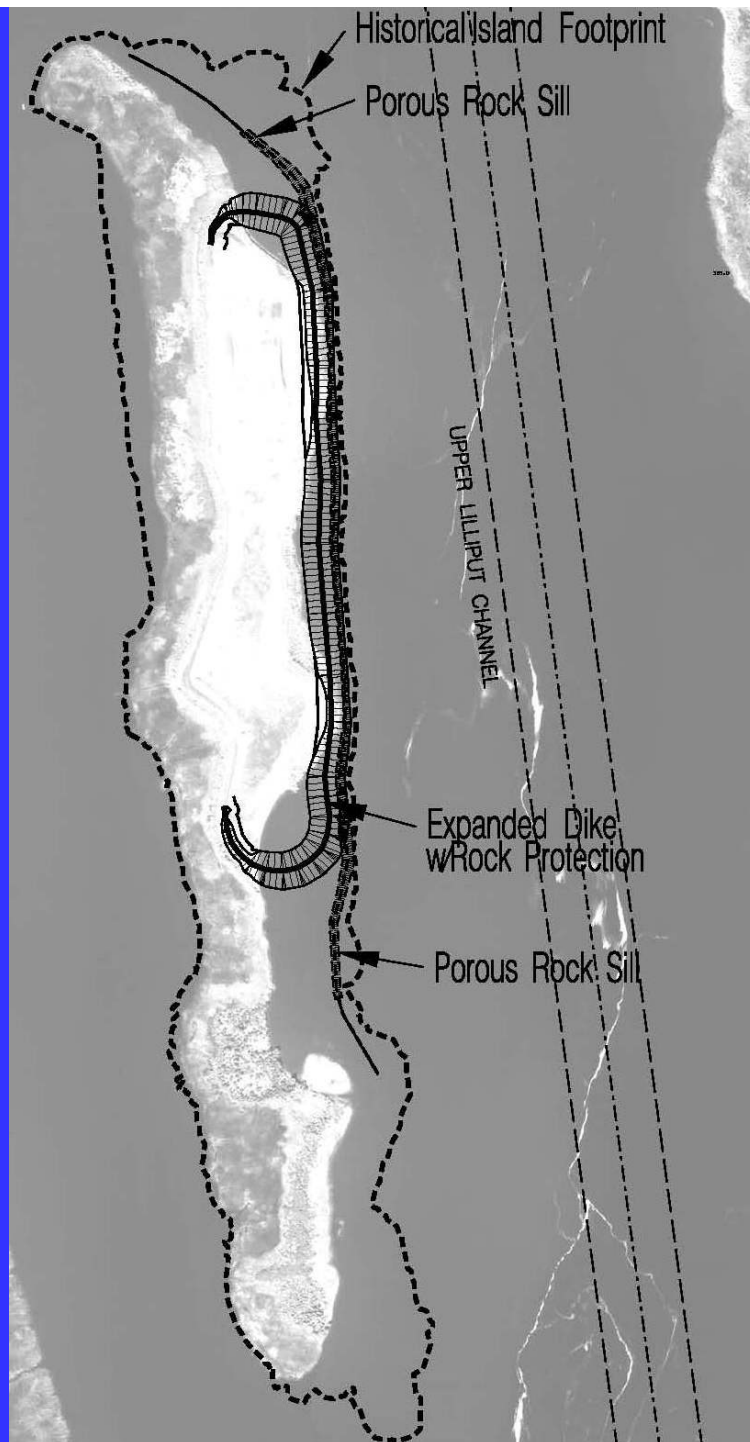


- Restore original footprint on channel side
 - Create ecosystem restoration feature (rock sill)





Wilmington District

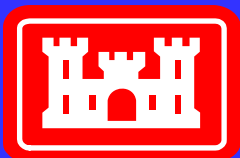


Island 10

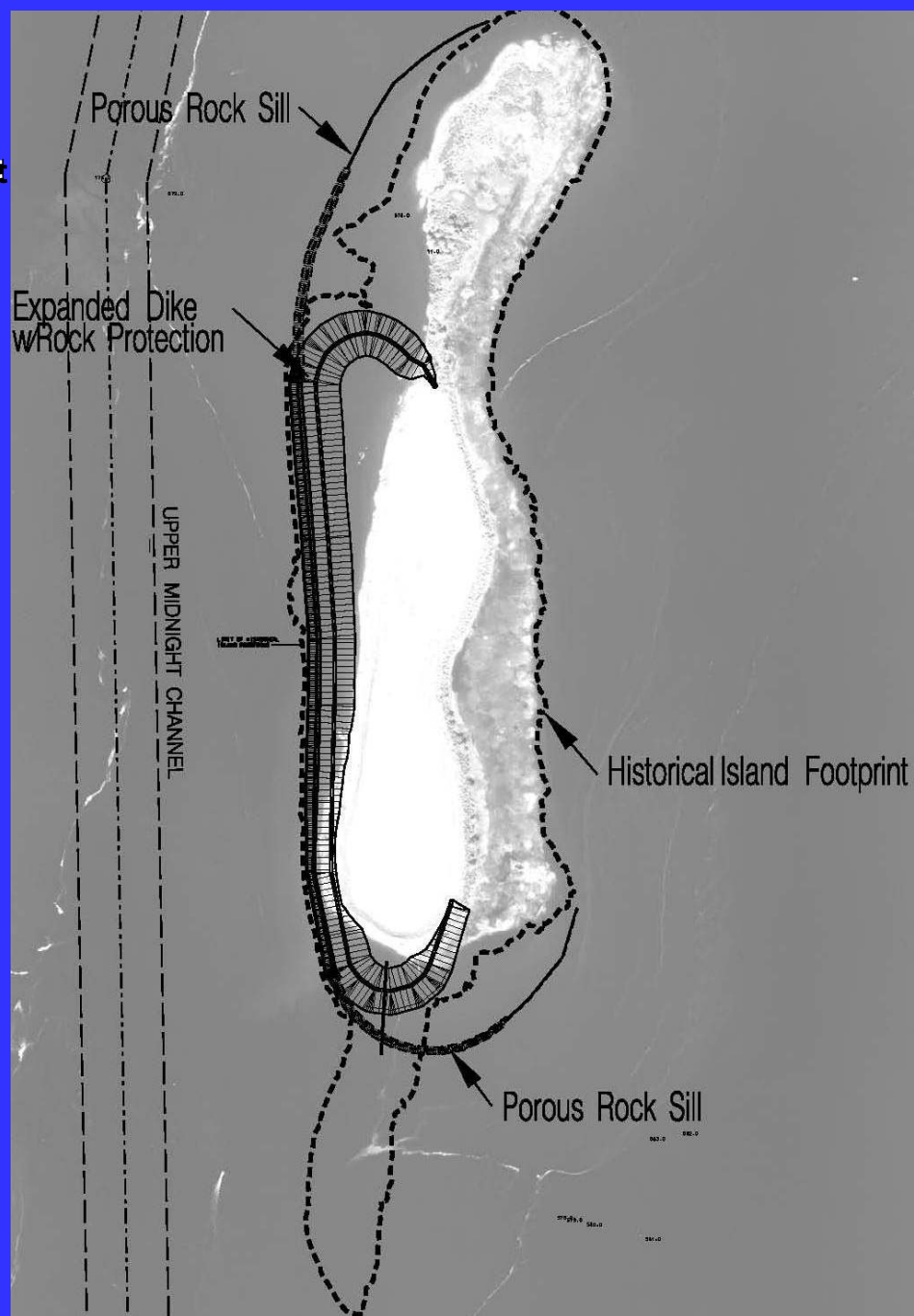
Preliminary Design

➤ ~12 acres
open water
impacted

➤ ~12 acres
protected inside
rock sill



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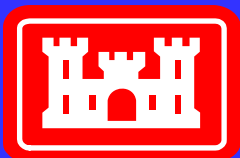


Island 8

Preliminary Design

➤ 21 acres open
water impacted

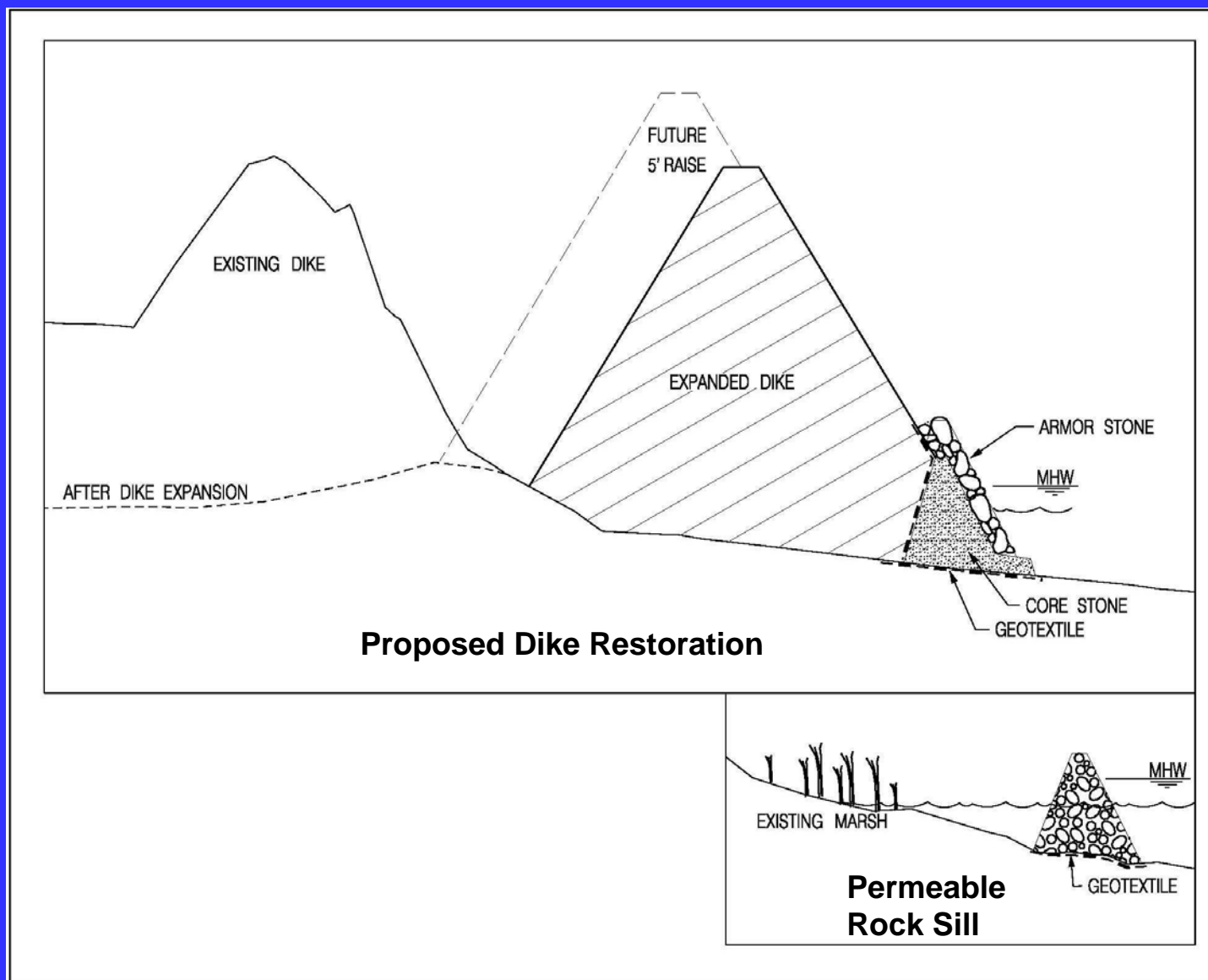
➤ 21 acres
protected inside
rock sill

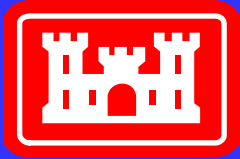


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Island Restoration/Rehab

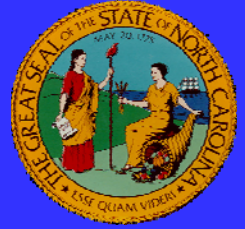
Proposed Typical Section





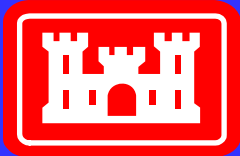
Wilmington District

Sand Recycling



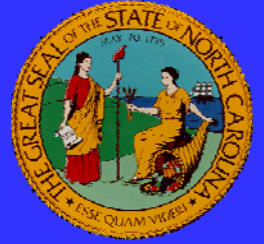
- Begin systematic sand recycling at Islands 3 & 4
 - ❖ Island 4 contains beach quality sand (beaches or bird islands)
 - ❖ Island 3 contains mostly sand with some fine-grained material
 - ❖ Investigating options for Island 3
 - ❖ Develop sustainable sand recycling plan





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Littoral Zone Disposal



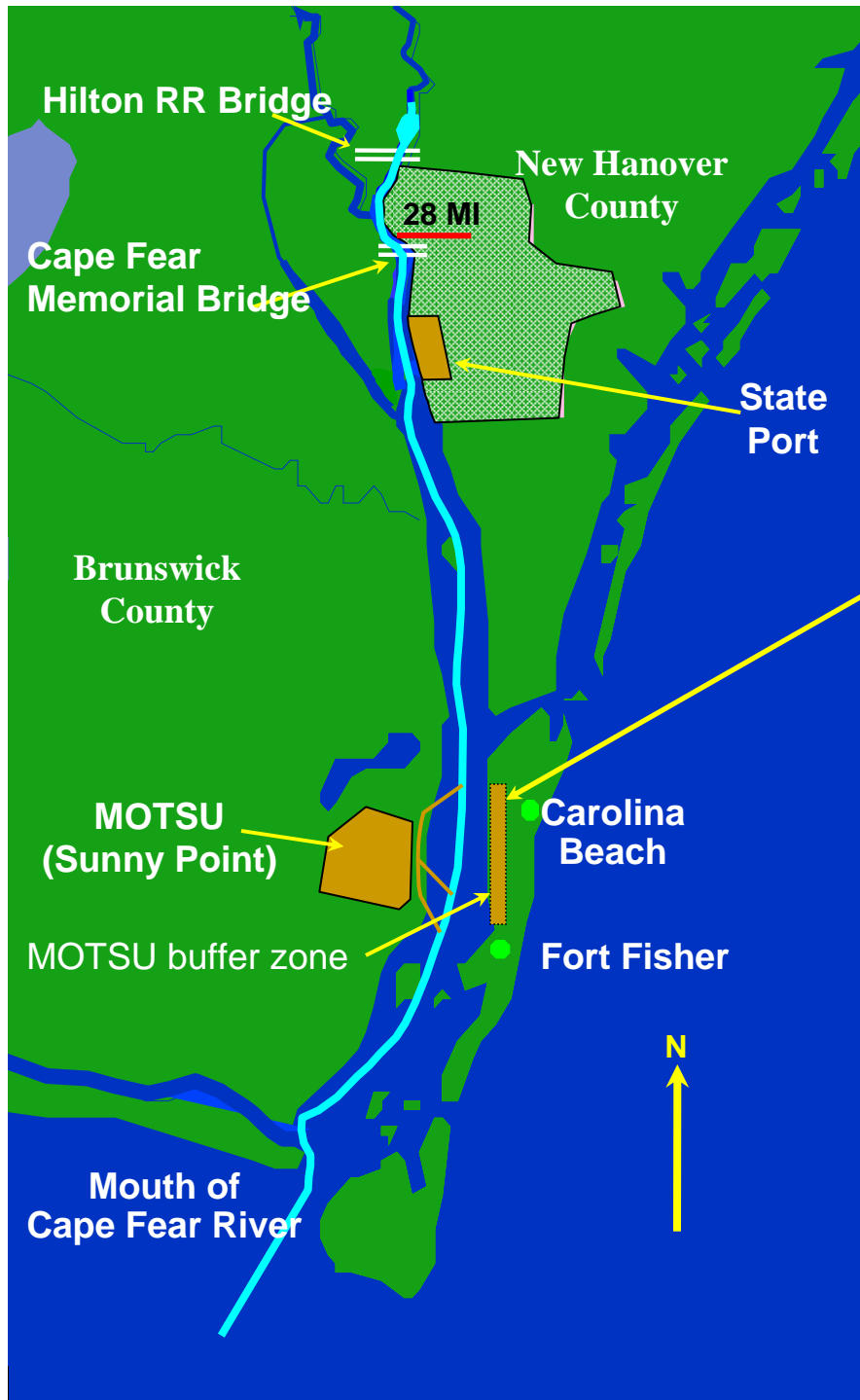
- Establish a littoral zone disposal site for sand recycling
 - Site in water depths 30'-40'
 - For small quantities of sand not designated for Bald Head or Caswell Beaches (Sand Mgmt Plan)
- Could be added to the Sand Mgmt Plan

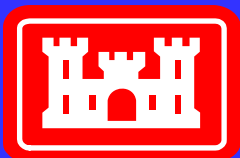


Alternative Eliminated

MOTSU Buffer Zone

New CDFs parallel to
Dow Road at Carolina
Beach





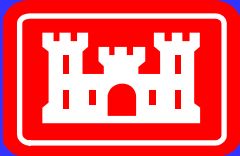
Wilmington District

-----MOTSU Buffer Zone CDFs-----



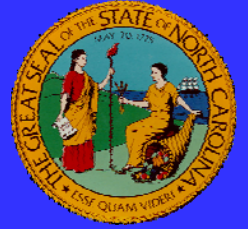
Issues/Concerns:

- Groundwater
- Constructability
- Wetland Impacts
- Costs
- Limited capacity
- Public opinion



Wilmington District

WILMINGTON HARBOR DMMP Upcoming Milestones



Select Recommended Plan	14 May 07
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Submit AFB Package to SAD/HQ	28 Jun 07
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*Alternative Formulation Briefing	10 Aug 07
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QUESTIONS?

10/16/2005

